

Richland Operations Office Near Term Project Work Scope

**Hanford Advisory Board
Budget & Contracts Committee
February 8, 2006**

FY 2006 RL Funding Summary

President's Budget Request	\$878.0M*
Congressional Earmarks	+ 30.9M
Less Congressional Rescission/Adjustments	- 10.1M
Less HQ holdback for Multi-Site Requirements	- <u>7.7M</u>
Expected RL Funding	\$891.1M*

*** Excludes Program Direction and National Program Funding**

Richland Operations Office

FY 2006 Allocation of EM Cleanup Funding

\$ in thousands

		FY 2005 Final <u>Allocation</u>	FY 2006 Congressional <u>Request</u>	FY 2006 Allocation <u>w/2% Rescission</u> **
2012 Accelerated Completion				
RL-0011	NM Stabilization & Disposition – PFP	\$193,267	\$190,772	\$135,704
RL-0012	SNF Stabilization & Disposition	155,226	58,479	113,835
RL-0041	Nuclear Facility D&D – River Corridor	165,176	168,501	177,490
RL-0043	HAMMER	7,938	-	7,351
RL-0044	B-Reactor	-	-	960
		<u>\$521,607</u>	<u>\$417,752</u>	<u>\$435,340</u>
2035 Accelerated Completion				
RL-0013	Solid Waste Stabilization & Disp – 200 Area	\$175,338	\$165,113	\$152,629
RL-0030	Soil & Water Remediation – GWVZ	79,741	72,955	65,832
RL-0040	Nuclear Facility D&D – Remainder of Hanford	125,926	70,812	89,732
RL-0080	Operate Waste Disposal Facility	3,546	5,861	2,609
RL-0100	Community & Regulatory Support	12,625	15,411	16,206
HQ-SNF-0012x	SNF Stab. & Disp.	990	1,813	1,813
		<u>\$398,166</u>	<u>\$331,965</u>	<u>\$328,821</u>
Safeguards & Security				
RL-0020	Safeguards & Security	\$58,280	\$82,155	\$81,333
Environmental Cleanup Projects				
RL-0042	Nuclear Facility D&D – FFTF	\$45,164	\$46,113	\$45,652
Total RL		<u><u>\$1,023,217</u></u>	<u><u>\$877,985</u></u>	<u><u>\$891,146</u></u>

** Allocation includes conference mark-ups less a 2% cumulative reduction of \$17,775K (1% rescission + 1% reduction from HQ for multi-site requirements)

Richland FY06 Priorities

- **K Basin Closure Project**
- **River Corridor Closure Project**
- **TRU Retrieval**
- **PFP D&D**

Changed Assumptions/Scope

- **FY06 Request**

- Pu Shipped offsite and PFP D&D by FY2009
- K East Basin Demo Completed
- K West Sludge containerization complete
- New contract for FFTF

- **FY06 Appropriation**

- Pu shipment not initiated
- PFP D&D by FY2016
- Initiate transfer of K East Sludge to K West
- Continue KE & KQ containerization
- Cancelled solicitation for FFTF

RL-0011, NM Stabilization & Disposition - PFP

- **Maintain Safe & Secure SNM**
- **Evaluate and take actions for extended facility lay-up**
- **Complete D-4 of 232Z (Incinerator Building)**
- **Replace PFP Roof**



296-Z-3 Stack at 241-Z Building



2736-ZB In-Line CAM



Duct Level Air System at 234-5Z



*232-Z incinerator –
demolish to slab-on-grade*

RL-0012, SNF Stabilization & Disposition

- **K Basin Safe & Compliant**
- **KBC Sludge Retrieval & Disposition**
 - Continue KE and KW sludge containerization
 - Initiate KE-KW sludge transfer
 - Remove KE racks, canisters, and debris
 - Complete design for sludge treatment system
 - Initiate procurement of MOSS and IPAN systems
- **KBC Decontamination & Deactivation**
 - Installation of NLOP barrier door
 - Excavation plan for basins
 - Perform grout testing



Rack removal in K East Basin



KW Sludge collection tanks in cleaned DW Basin Center Bay



KE/KW hose-in-hose system installation

RL-0013, Solid Waste Stabilization & Disposition – 200 Area

- **MLLW Treatment**
- **TRU Retrieval**
- **Transfer Pu-238 Drums**
- **WIPP Shipments**
- **Complete NLOP Sludge Treatment**
- **Consolidate Site-wide Fuel**
- **Maintain ready-to-serve capabilities for treatment/ disposal/storage: WESF, CSB, CWC, WRAP, T Plant, Liquid Effluent Treatment, Burial Grounds**



TRU Waste Shipment to WIPP



Suspect TRU waste removal



Mixed waste treatment and disposal operations

RL-0030, Soil & Water Remediation - GW/Vadose Zone

- **Drill Groundwater RCRA/CERCLA/AEA Wells**
- **Continue decommissioning high-risk/high-priority wells (total 340)**
- **Monitor Groundwater and Provide support to groundwater monitoring activities**
- **Interim Action Monitoring**
- **Remediate Hanford Site Groundwater**
- **Continue to develop Groundwater Remediation Technologies**



*Well drilling/sampling for M-24
TPA Milestone*



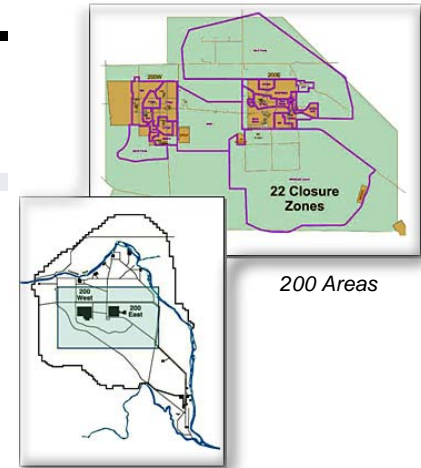
ZPR Pump and Treat Unit



Drilling at 100-NR-2

RL-0040, Nuclear Facility D&D – Remainder of Hanford

- **Continue CERCLA Remediation investigations**
- **Continue U Plant Waste Sites Remediation**
- **Infrastructure Reliability Projects**
 - L-325, A-8 Substation
 - L-334, Remote Isolation Valve installation
 - Consolidated Maintenance Center
 - L-440 & L-438, Refurbish portions of Route 4S
- **Surveillance & Maintenance/
Program Management & Support**



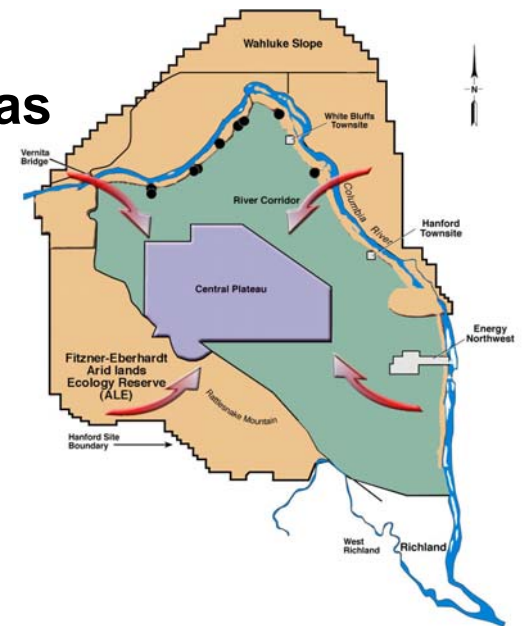
U Plant Canyon



Capital Equipment Replacements

RL-0041, Nuclear Facility D&D - RCCCP

- **Field Remediation**
 - Complete remediation of 618-2 and 618-3 Burial Grounds
 - Complete remediation of 100 B/C Burial Grounds
 - Continue work in K,D,F,H, & N Reactor Areas Field Work
- **D4 in the 300/100 Areas including 314, 334 & Deactivation in 324 & 327**
- **Interim Safe Storage**
 - Completed 5th Reactor (H Reactor)
 - Continue design for remaining reactors
- **Waste Operations**



RL-0042, Nuclear Facility D&D - FFTF

- **Maintain Safe & Compliant FFTF**
- **Transition FFTF**
 - Disposition mixed-oxide spent nuclear fuel
 - Complete draining bulk sodium from the FFTF
- **Disposition FFTF Sodium Residuals**
 - Remove the 466 storage tubes from the fuel storage facility vessel
 - Complete the FFTF Sodium Residuals Environmental Assessment
 - Clean sodium-potassium alloy (NaK) residuals from the Fuel Storage Facility cooling loop
 - Install sodium residual cleaning system in the Fuel Storage Facility



Fast Flux Test Facility



FFTF Interim storage cask being readied for movement to storage in the 400 Area

Other PBSs

- **RL-0020, Safeguards and Security**
 - Design Basis Threat Upgrades
 - Maintain site security
- **RL-0043, HAMMER**
 - Continue HAMMER operations
- **RL-0044 – B Reactor**
 - National Monument feasibility study
- **RL-0080, Operate Waste Disposal Facility**
 - Continue operations of low-level burial grounds and radioactive mixed low-level waste disposal trenches
- **RL-0100,**
 - Continue PILT, grants and permits

FY06 TPA Milestones

DOE-RL Tri-Party Agreement Milestones and Targets FY 2006					
PBS #	Number	Status	Due Date	Completion Date	Title
RL-0011	M-083-14	Completed	9/30/2006	6/30/2005	Complete 100% of the Legacy Pu Holdup Removal
RL-0011	M-083-40	On Schedule	9/30/2006		Complete Transition & Dismantlement of the 232-Z Bldg Incinerator
RL-0012	M-034-21-T01	Completed	12/31/2005	9/26/2005	Initiate Full Scale K West Basin Water Removal
RL-0013	M-091-40L-008	Completed	12/15/2005	12/14/2005	Submit Jul-Sep 4th Qtr FY05 Burial Ground Sample Results
RL-0013	M-091-40C	Completed	12/31/2005	7/12/2005	Retrieve CH-RSW 2700 Cubic Meters (Cumulative)
RL-0013	M-091-42B	Completed	12/31/2005	3/9/2005	Treat 3260 Cubic Meters CH-MLLW (Cumulative)
RL-0013	M-091-42H	<i>Litigation</i>	12/31/2005		Treat 1800 Cubic Meters CH TRUM (Cumulative)
RL-0013	M-091-40L-009	On Schedule	3/15/2006		Submit Oct-Dec 1st Qtr FY06 Burial Ground Sample Results
RL-0013	M-026-01P	On Schedule	4/30/2006		Submit An Annual Hanford LDR Summary Report
RL-0013	M-091-40L-010	On Schedule	6/15/2006		Submit Jan-Mar 2nd Qtr FY06 Burial Ground Sample Results
RL-0013	M-091-40L-011	On Schedule	9/15/2006		Submit Apr-Jun 3rd Qtr FY06 Burial Ground Sample Results
RL-0013	M-016-93	On Schedule	9/30/2006		Submit Implementation Workplan To Prepare TRU/TRUM Waste
RL-0013	M-091-45C	On Schedule	9/30/2006		Submit Report For RH Waste & Boxes Of RH/CH Waste
RL-0030	M-024-57G	Completed	12/31/2005	9/21/2005	DOE Shall Install A Cumulative Of 45 Wells By 12/31/2005
RL-0030	M-024-57H	On Schedule	6/30/2006		DOE Initiates Discussions Annually To Reaffirm Selected Wells
RL-0030	M-024-57I	On Schedule	8/1/2006		Conclude Negotiations & Revise M-024-57 By August 1 Of Each Year

FY06 TPA Milestones

DOE-RL Tri-Party Agreement Milestones and Targets FY 2006					
PBS #	Number	Status	Due Date	Completion Date	Title
RL-0040	M-015-46A	On Schedule	2/28/2006		Submit 200 Area Chemical Laboratory Waste OUs R.I. Report
RL-0040	M-015-39C	On Schedule	3/31/2006		Submit Draft A 200-CS-1 Chemical Sewer Group FS And Proposed Plan
RL-0040	M-020-39	On Schedule	3/31/2006		Submit 216-S-10 Pond And Ditch Closure Plan To Ecology
RL-0040	M-015-43C	On Schedule	4/30/2006		Submit 200-PW-2 OU Feasibility Study And Proposed Plan/Permit Mod
RL-0040	M-015-44A	On Schedule	4/30/2006		Submit 200-MW-1 OU Remedial Investigation Report
RL-0040	M-020-33	On Schedule	4/30/2006		216-A-10/216-A-36B/216-A-37-1 Crib Closure/Postclosure Plans
RL-0040	M-015-48A	On Schedule	5/31/2006		Submit Draft A 200-ZP-1 CERCLA Remedial Investigation Report
RL-0040	M-015-46B	On Schedule	9/30/2006		Submit 200 Area Chemical Laboratory Waste OUs Feasibility Study
RL-0041	M-016-70	Completed	10/30/2005	10/13/2005	Begin Sampling To Support 100/300 Areas Baseline Risk Assessment
RL-0041	M-089-00	<i>Dispute Resolution</i>	10/31/2005		Closure Of Non-Permitted MW Units In 324 Bldg REC B&D Cells
RL-0041	M-016-63	Completed	12/31/2005	12/29/2005	Submit Schedule & TPA Milestones For 300-FF-2 W.S.
RL-0041	M-093-18	Completed	12/31/2005	11/9/2005	Complete 105-H Reactor Interim Safe Storage
RL-0041	M-094-01	Completed	12/31/2005	12/29/2005	Submit A Schedule And TPA Milestones For Facility Disposition
RL-0041	M-016-46	On Schedule	7/31/2006		Initiate Remedial Actions For The Remaining 100 D Waste Sites
RL-0041	M-093-23	On Schedule	7/31/2006		Submit Engineering Evaluation/Cost Analysis For KE/KW Reactor ISS
RL-0041	M-092-06-T02	Completed	9/30/2006	5/17/2005	Complete Disposal Of 135 MT Of Fuel & 5 MT Of U Source Materials
RL-0041	M-093-24	Completed	9/30/2006	10/14/2004	Submit EE/CA For N Reactor ISS
RL-0041	M-094-05	On Schedule	9/30/2006		Complete D4 Of 313 And 314 Facilities
RL-0042	M-092-12	On Schedule	9/30/2006		Complete Acquisition Of Storage Facilities Prior To SCW Disposal
RL-0042	M-092-16	On Schedule	9/30/2006		Complete Removal/Transfer/Initiate Storage Of PH-III 300 Area SCW